

Seminar on

Diffraction radiation of Sub-wavelength holes array excited by Electron Beam

by

Academician Shenggang Liu

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Abstract

The first theoretical study on electromagnetic diffraction was by Bethe in the year of 1944 (published in Phys.Rev.). The Extraordinary transmission by Ebbesen in 1998 (Nature,391), since then, the diffraction radiation becomes extremely attractive topics of research, a large number of papers published afterwards. However, most of them, even not all, the plane wave excitation is used. Our investigations show that the electron beam excitation may lead more interests and new phenomena. And the main purpose of our study is to find a way which can combine Electronics and Photonics to generate THz radiation. Some of the results will be reported in the talk.

Biography

Prof. Shenggang Liu (Academician, Chinese Academy of Sciences, Member, Presidium of Chinese Academy of Sciences, IEEE Fellow)

Prof. Shenggang Liu received Ph.D degree in 1958 under the supervision of Prof. I. V. Lebedev of the Moscow University of Energy, USSR. He was elected the Academician of Chinese Academy of Sciences in 1980, and he is now the member of the presidium of Chinese Academy of Sciences. He is IEEE Fellow and the member of the Electromagnetic Academy, MIT. He was awarded the Chinese National Prize of Nature Science in 1985 and 1999, Chinese National Prize of Invention in 2000 and 2001. And he received the Tan Kah Kee Prize in Information Science (highest Prize of Chinese Academy of Sciences) in 1999, and the International K.J. Button Prize in 2003. He serves the member of the International K.J. Button prize Committee (1994-) and the International Committee of the Free Electron Laser Prize (1995-1999).

He was invited to serve as the nominator for Nobel Prize in Physics by the Nobel Committee for Physics of the Swedish Royal Academy of Sciences in the year of 1999 and 2000. He served the President of the University of Electronic Science and Technology of China (1986-2001).

Date : 17 Jan., 2013 (Thursday)
Time : 10:00am – 11:00am
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City University of Hong Kong

*** ALL ARE WELCOME ***

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